

To: Thomas, Mark J.[Thomas.Markj@epa.gov]
Cc: Janine.Latham@WestonSolutions.com[Janine.Latham@WestonSolutions.com];
kris.fuller@westonsolutions.com[kris.fuller@westonsolutions.com]
From: Dutt, Rajendra (Raj)
Sent: Wed 8/12/2015 7:46:26 AM
Subject: RE: 1700 -- ASPECT Update -- 11 August 2015
[PhotoErrorsExplanation.png](#)

Mark,

I have looked at these anomalies in more depth and come to believe that although photos are georeferenced correctly, multiregional nature of this response has caused post processing to generate this issue.

During initial processing of photos all photos were collected using single projection, but there have been two separate projections used in photo collection: **UTM_Zone_12N** and **UTM_Zone_13N**.

It logically makes sense because these photos were captured in those specific zones.

During post processing, a single folder may contain photos to belong to either one of these two projections. Considering that there are hundreds/thousands of photos, it will be a huge waste of time to go through each photo individually, identify its projection and place it in different raster catalog created for specific projection system. I check a few photos and assumed all of them to belong to same projection, and problem was introduced.

I can fix this problem in existing flight folders (5, 6 and 8). I have set up a multi-step process to identify and move photos to appropriate raster catalogs.

If it is simpler for you to separate photos into specific projection categories before uploading to FTP then we can avoid this problem in future flight data. Otherwise we I will have to run my multi-step process to identify, separate and load photos into appropriately defined raster catalogs.

In future this response may include photos with additional projections, so we need to resolve and set up our processes now.

Attached graphic attempts to displays this issue.

I have not proceeded with fixing this issue yet. I will once we are all on same page.

Thanks

Raj Dutt, GISP

IT Technical Manager

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From: Dutt, Rajendra (Raj)
Sent: Tuesday, August 11, 2015 7:27 PM
To: 'Thomas, Mark J.'
Subject: RE: 1700 -- ASPECT Update -- 11 August 2015

Mark,

There are problem area with flight 5 too. See attached image.

Please confirm if these photo should be removed or adjusted.

Thanks

Raj Dutt, GISP

IT Technical Manager

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From: Dutt, Rajendra (Raj)
Sent: Tuesday, August 11, 2015 7:10 PM
To: 'Thomas, Mark J.'
Subject: RE: 1700 -- ASPECT Update -- 11 August 2015
Importance: High

Mark,

I just downloaded processed photos, and see problems in photos from Flight 6 and 8.

Some photos from these flights are showing up in OK panhandle area.

See attached image.

I will hold back from publishing photos till I hear from you.

Thanks

Raj Dutt, GISP

IT Technical Manager

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From: Thomas, Mark J. [mailto:Thomas.Markj@epa.gov]

Sent: Tuesday, August 11, 2015 6:15 PM

To: Dutt, Rajendra (Raj); Bruce, Ian; McClain-Vanderpool, Lisa; Cardarelli, John; Curry, Tim; Kudarauskas, Paul; Kroutil, Robert; Lucotch, John; Myers, Craig; Nattis, Randy; Martin, John; McComb, Martin; Latham (Polinko), Janine; Loesel, Matthew

Subject: 1700 -- ASPECT Update -- 11 August 2015

ASPECT did not fly today due to poor weather over the collection areas. Time was spent getting caught up on all imagery. All imagery has been uploaded.

Flight 8 shows good examples of color attenuation along all parts of the Animas river. Due to shadows, portions of the canyons north of Durango are too dark to see water color locations up and down stream of the canyon both show good recovery. This set of data was processed twice. A stretch was applied to the canyon frames and normal balance was applied to everything else in an attempt to balance out the level.

Weather for Wednesday looks poor in the early morning but grades to favorable as the day progresses. The team will monitor the weather and adjust accordingly.

The proposed mission profile for 12 August 2015 will consist of:

1. Reduced coverage photographic collection along the San Juan from Bluff, UT to Farmington, NM. Frames will be collected at a rate of 4/5 frames per 4 river miles. Pending weather, this location will be collected first since it is less affected by sun angle.
2. A photographic survey will be conducted from Farmington to the mine. Again, pending weather, this portion of the mission will be timed to occur between 1030 and 1330 (local) to get the best sun angle in the canyon section of the Animas. If a late afternoon flight is conducted, attention will be given to the Durango to Canyon section and the Silverton to mine section.

The latest version of the Summary of ASPECT Flights is attached.

Please let me know if you have any questions.

Mark Thomas, PhD

ASPECT Program Manager

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